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ATTY. DOCKET NO. SERMING 1579 774 New PCT Nat'l Stage Application

APPLICANT

Yutaka MURAKAMI, et al.

FILING DATE GROUP Unassigned

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	2003		0	2	3	6	0	7	6	12/2003	Brunel					
	2004		0	1	8	1	4	1	9	09/2004	Davis et al.					
	2004		0	0	4	2	5	6	5	03/2004	Garrett					
	2004		0	1	7	4	9	3_	9_	09/2004	Wang					
			6	8	2	9	1	5	1	12/2004	Elferich et al.					
	2005		0	1_	5	2	2	6	6	07/2005	Hwang et al.					
	2005		0	1_	9	0	7	6	6	09/2005	Ochiai					
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	2005			1	4	3	1	1	6	06/2005	JP			Abstract		
	2004			3	2_	0	4_	3	4	11/2004	JP	L		Abstract	_	
	-	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
	-	PCT International Search Report dated February 8, 2005.														
		T. AOKI, et al.: "MIMO Channel ni okeru ZF to MLD o Heiyo shita Group Detection ni Kansuru Kenjo," 2003 nen The Institute of Electronics, Information and Communication Engineers Tsushin Society Taikai Koen Ronbunshu 1, Sept. 10, 2003, page 393.														
		Y. ASHINA, et al.; "MIMO Channel Denso ni Mochiiru MLD no Enzanryo Sakugenho no Kento." 2003 Nen The Institute of Electronics, Information and Communication Engineers Sogo Taikai, Communication 1, Mar. 3, 2003, page 625.														
		E. VI on Ir	TER	BO, e	al.;	A Un	ivers ol. 45	al La , no.	ttice 5, Ju	Code Deco	oder for Fading Ch b. 1639-1642.	annels,	" IEEE T	ransactions	5	
		K. M	IYAL Tra	ICHI, nsact	et al.; ons c	"Nev	v Tec mmu	hniq nicat	ue fo	r Generatir vol. 24, no	ng and Detecting No. 2, Feb. 1976, pp.	fultileve 263-26	el Signal 7.	Formats,"		
		H. K. Teki Infoi pp. 1	AWA o Iki mati 19-24	l, et a noko on an	I.; "Q ri Syn d Coi	RM-N ibol F nmui	ILD o Replic nicati	Moc a Ko on E	hiiru ho S ngine	OFCDM M entakuho i ers Gijuts	IIMO Taju ni okeru no Tokusei Hyoka, u Kenkyu Hokoku,	Shinrai "The Ir vol. 10	do Joho stitute o 4, no. 186	o Mochiiru f Electroni 5, July 9, 20	65 004,	

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Patent and Trademark Office ATTY DOCKET NO. New PCT Nat'l Stage INFORMATION DISCLOSURE STATEMENT BY APPLICANT L9289.06159 Application (Use several sheets if necessary) APPLICANT Yutaka MURAKAMI, et al. FILING DATE May 18, 2006 GROUP Unassigned U.S. PATENT DOCUMENTS. FXAMINER CIBCI ACC IF THE PROPERTY. DOCUMENT NUMBER DATE NAME CLASS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) W. JIANG, et al.; "A Novel MIMO Signal Detection Scheme Combining ZF and MLD," IEICE Technical Report, vol. 103, no. 680, Feb. 25, 2004, pp. 1-6. T. ONIZAWA, et al.; "QFDM/SDM ni okeru Jigen Shukusho o Mochiita ML Kenshutsuki ni Kansuru Ichikenlo," 2004 nen The Institute of Electronics, Information and Communication Engineers Sogo Talkai, Communication 1, Mar. 8, 2004, page 537. B. BJERKE, et al.; "Multiple-Antenna Diversity Techniques for Transmission over Fading Channels," IEEE WCNC 1999, Sept. 1999, pp. 1038-1042. V. TAROKH, et al.; "Space-Time Block Codes from Orthogonal Designs," IEEE Transactions on Information Theory, vol. 45, no. 5, July 1999, pp. 1456-1467. J. HOU, et al.; "Performance Analysis and Code Optimization of Low Density Parity-Check Codes on Rayleigh Fading Channels," IEEE Journal on selected areas in communications, vol. 19, no. 5, May 2001, pp. 324-334.

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(Form PTO-1449 [6-4])

/Zewdu Kassa/

07/23/2009

Y, MURAKAMI, et al.: "Performance Analysis of MIMO Systems under Rician Fading Channels," The Institute of Electronics, information and Communication Engineers, Technical Report of IEICE, NS2003-67, RCS2003-90 (07-2003), pp. 1-6 with English Abstract.

K. MIYASHITA, et al.; "Eigenbeam-Space Division Multiplexing (E-SDM) in a MIMO Channel," The Institute of Electronics, Information and Communication Engineers, Technical Report of IEICE, RCS2002-53 (05-2005), pp. 13-18 with English Abstract.